

1017327718/08/2003

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	Feb 24	PCTGEN now available on STN
NEWS	4	Feb 24	TEMA now available on STN
NEWS	5	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	6	Feb 26	PCTFULL now contains images
NEWS	7	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	8	Mar 24	PATDPAFULL now available on STN
NEWS	9	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	10	Apr 11	Display formats in DGENE enhanced
NEWS	11	Apr 14	MEDLINE Reload
NEWS	12	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	13	AUG 15	Indexing from 1937 to 1946 added to records in CA/CAPLUS
NEWS	14	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	15	Apr 28	RDISCLOSURE now available on STN
NEWS	16	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	17	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	18	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS	19	May 19	Simultaneous left and right truncation added to WSCA
NEWS	20	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS	21	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS	22	Jun 06	PASCAL enhanced with additional data
NEWS	23	Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS	24	Jun 25	HSDB has been reloaded
NEWS	25	Jul 16	Data from 1960-1976 added to RDISCLOSURE
NEWS	26	Jul 21	Identification of STN records implemented
NEWS	27	Jul 21	Polymer class term count added to REGISTRY
NEWS	28	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS	29	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS	30	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS	31	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS	32	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS	33	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS	34	AUG 15	TEMA: one FREE connect hour, per account, in September 2003

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NEWS 35 AUG 18 Data available for download as a PDF in RDISCLOSURE
NEWS 36 AUG 18 Simultaneous left and right truncation added to PASCAL

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:34:32 ON 18 AUG 2003

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:34:42 ON 18 AUG 2003
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STRUCTURE FILE UPDATES: 15 AUG 2003 HIGHEST RN 567484-39-3
DICTIONARY FILE UPDATES: 15 AUG 2003 HIGHEST RN 567484-39-3

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>
Uploading 10173277.str

L1 STRUCTURE UPLOADED

=>
Uploading 10018842.str

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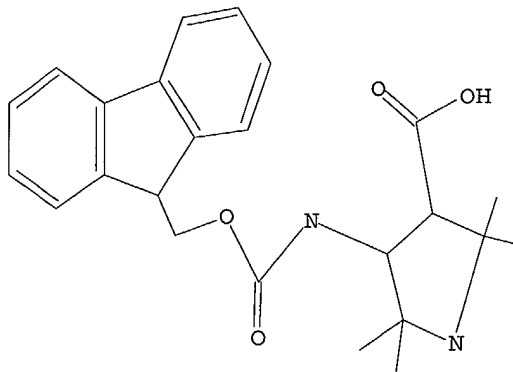
1017327718/08/2003

L2 STRUCTURE UPLOADED

=> d

L2 HAS NO ANSWERS

L2 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l2 full

FULL SEARCH INITIATED 14:36:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L2

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

148.95

149.16

FILE 'CAPLUS' ENTERED AT 14:36:29 ON 18 AUG 2003

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FILE COVERS 1907 - 18 Aug 2003 VOL 139 ISS 8

FILE LAST UPDATED: 17 Aug 2003 (20030817/ED)

This file contains CAS Registry Numbers for easy and accurate

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1017327718/08/2003

substance identification.

=> s l3

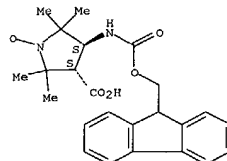
L4 1 L3

=> d ibib abs hitstr tot

1017327718/08/2003

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2001:584508 CAPLUS
DOCUMENT NUMBER: 135:318698
TITLE: Fmoc-POAC: [(9-fluorenylmethyloxycarbonyl)-2,2,5,5-tetramethylpyrrolidine-N-oxyl-3-amino-4-carboxylic acid]: a novel protected spin labeled .beta.-amino acid for peptide and protein chemistry
AUTHOR(S): Erick
Tominaga, Mineko; Barbosa, Simone Reis; Poletti, Fernando; Zukerman-Schpector, Julio; Marchetto, Reinaldo; Schreier, Shirley; Paiva, Antonio Cecchelli Mattos Mattos; Nakaie, Clovis Ryuichi
CORPORATE SOURCE: Department of Biophysics, Universidade Federal de Sao Paulo, Sao Paulo, 04044-020, Brazil
SOURCE: Chemical & Pharmaceutical Bulletin (2001), 49(8), 1027-1029
CODEN: CPBTAL; ISSN: 0009-2363
PUBLISHER: Pharmaceutical Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The stable free radical 2,2,6,6-tetramethylpiperidine-N-oxyl-4-amino-4-carboxylic acid (TOAC) is the only spin labeled amino acid that has been used to date to successfully label peptide sequences for structural studies. However, severe difficulty in coupling it with an amino acid has been the most serious shortcoming of this paramagnetic marker. The present report introduces the alternative .beta.-amino acid 2,2,5,5-tetramethylpyrrolidine-N-oxyl-3-amino-4-carboxylic acid (POAC), potentially useful in peptide and protein chem. X-ray diffraction measurements of POAC in cryst. and bulk samples revealed that it consists only of the trans conformer. The amine function of POAC was protected with 9-fluorenylmethyloxycarbonyl (Fmoc), such that Fmoc-POAC can be used in peptide synthesis. For example, vasoactive octapeptide angiotensin II (AII; DRVYIHF⁸) was synthesized by replacing Pro⁷ with POAC. The reaction of Fmoc-POAC with the peptidyl resin occurred smoothly, and the coupling of the subsequent amino acid showed a much faster reaction than when compared with TOAC. POAC⁷-AII was obtained in a good yield, demonstrating that, in addn. to TOAC, POAC is a convenient amino acid for the synthesis of spin labeled peptide analogs.
IT 367493-88-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prep. of Fmoc-POAC as a protected, spin labeled .beta.-amino acid for incorporation into angiotensin II)
RN 367493-88-7 CAPLUS
CN 1-Pyrrolidinyl-oxo, 3-carboxy-4-[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-2,2,5,5-tetramethyl-, (3R,4R)-rel- (9CI) (CA INDEX NAME)
Relative stereochemistry.

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 24
THIS THERE ARE 24 CITED REFERENCES AVAILABLE FOR
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

1017327718/08/2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
5.37	154.53

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.65	-0.65

CA SUBSCRIBER PRICE

FILE 'REGISTRY' ENTERED AT 14:37:30 ON 18 AUG 2003

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STRUCTURE FILE UPDATES: 15 AUG 2003 HIGHEST RN 567484-39-3

DICTIONARY FILE UPDATES: 15 AUG 2003 HIGHEST RN 567484-39-3

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

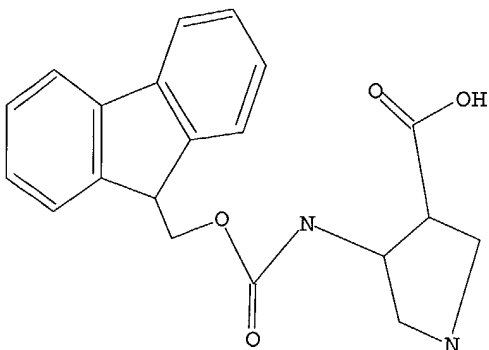
Uploading 10018842.str

L5 STRUCTURE UPLOADED

=> d

L5 HAS NO ANSWERS

L5 STR



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Structure attributes must be viewed using STN Express query preparation.

=> s 15 full

FULL SEARCH INITIATED 14:38:00 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 242 TO ITERATE

100.0% PROCESSED 242 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

L6 4 SEA SSS FUL L5

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

148.15

302.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-0.65

FILE 'CAPLUS' ENTERED AT 14:38:08 ON 18 AUG 2003

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FILE COVERS 1907 - 18 Aug 2003 VOL 139 ISS 8

FILE LAST UPDATED: 17 Aug 2003 (20030817/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 16

L7 11 L6

=> d ibib abshitstr tot

'ABSHITSTR' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB

ALL ----- BIB, AB, IND, RE

APPS ----- AI, PRAI

BIB ----- AN, plus Bibliographic Data and PI table (default)

CAN ----- List of CA abstract numbers without answer numbers

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CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
SCAN must be entered on the same line as the DISPLAY,
e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, IPC, and NCL

IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
its structure diagram
HITSEQ ----- HIT RN, its text modification, its CA index name, its
structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
structure diagram, plus NTE and SEQ fields
KWIC ----- Hit term plus 20 words on either side
OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> d ibib abs hitstr tot

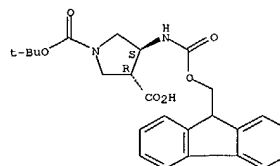
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L7 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2003:242180 CAPLUS
 DOCUMENT NUMBER: 138:271975
 TITLE: Preparation of .beta.-peptides in method for delivery of molecules to intracellular targets
 INVENTOR(S): Gellman, Samuel H.; Umezawa, Naoki; Gelman, Michael A.; Raines, Ronald T.; Potocky, Terra
 PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, USA
 SOURCE: PCT Int. Appl., 111 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003024477	A1	20030327	WO 2002-US29568	20020918
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003119189	A1	20030626	US 2002-246441	20020918
PRIORITY APPLN. INFO.: US 2001-323512P P 20010918 OTHER SOURCE(S): MARPAT 138:271975 AB Disclosed are .beta.-peptides and .beta.-peptide conjugates that are capable of diffusing or otherwise being transported across the cell membranes of living cells. The .beta.-peptides contain at least six .beta.-amino acid residues, at least six of which are preferably .beta.-3-homoarginine residues. When pharmacol.-active agents are conjugated to these types of .beta.-peptides, the resulting conjugates (also disclosed) are also capable of diffusing or otherwise being transported across the cell membranes of living cells, including mammalian cells. The examples include the synthesis of cyclohexyl-contg. .beta.-amino acids and the soln.-phase synthesis of a .beta.-peptide chain contg. alternating residues of unsubstituted cyclohexane rings and amino-substituted cyclohexane rings. IT 267230-44-4P RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of .beta.-peptides in method for delivery of mols. to intracellular targets) RN 267230-44-4 CAPLUS CN 1,3-Pyrrolidinedicarboxylic acid, 4-[[[9H-fluoren-9-ylmethoxy]carbonyl]amino]-, 1-[(1,1-dimethylethyl) ester, (3R,4S)- (9CI) (CA INDEX NAME) Absolute stereochemistry. Rotation (-).				

L7 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

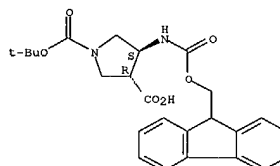


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L7 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2003:76804 CAPLUS
 DOCUMENT NUMBER: 138:137596
 TITLE: Antimicrobial compositions containing .beta.-amino acid oligomers
 INVENTOR(S): Gellman, Samuel H.; Weisblum, Bernard; Porter, Emilie Ann; Wang, Xifang
 PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, USA
 SOURCE: PCT Int. Appl., 101 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003008439	A1	20030130	WO 2001-US22801	20010718
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, BG, CH, CY, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.: WO 2001-US22801 20010718 OTHER SOURCE(S): MARPAT 138:137596 AB Disclosed are antimicrobial compns. contg. .beta.-peptides and methods of inhibiting microbial growth in mammals using the compns. The .beta.-peptides present in the compns. contain ring structures in the peptide backbone which limit the conformational flexibility of the peptide backbone. Compds. W-[NHCH(X)CH(Y)CO]p-2 [p is an integer > 6; W is H or an amino-terminal capping group; Z is OH or a carboxy-terminal capping group; X = H, alk(en)(yn)yl, mono- or bicyclic (hetero)aryl, (CH2)n-1-functional group (n = 0-6), etc.; Y = H, alk(en)(yn)yl, mono- or bicyclic (hetero)aryl, (CH2)n-1-functional group, etc.; or X-CHCH-Y are (un)substituted cycloalk(en)yl or heterocyclic rings] are claimed. Oligomers contg. (R,R)-trans-2-aminocyclopentanecarboxylic acid (ACPC) and (R,R)-trans-4-aminopyrrolidine-3-carboxylic acid (APC) residues of formula Ac-ACPC-ACPC-(APC-ACPC-APC-ACPC-ACPC)n-NH2 (n = 1, 2, or 3 (.beta.-17); in protonated forms) were prepd. and evaluated for antimicrobial and non-hemolytic activities. The antibacterial activity of .beta.-17 is comparable to that of magainin. IT 267230-44-4P RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of .beta.-amino acid oligomers for antimicrobial compns.) RN 267230-44-4 CAPLUS CN 1,3-Pyrrolidinedicarboxylic acid, 4-[[[9H-fluoren-9-ylmethoxy]carbonyl]amino]-, 1-[(1,1-dimethylethyl) ester, (3R,4S)- (9CI) (CA INDEX NAME) Absolute stereochemistry. Rotation (-).				

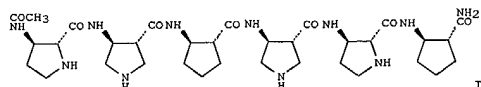
L7 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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1017327718/08/2003

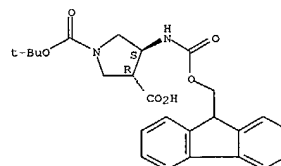
L7 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2002:651023 CAPLUS
 DOCUMENT NUMBER: 137:325636
 TITLE: Synthesis and 12-Helical Secondary Structure of
 .beta.-Peptides Containing (2R,3R)-Aminoproline
 AUTHOR(S): Porter, Emilie A.; Wang, Xifang; Schmitt, Margaret
 A.;
 CORPORATE SOURCE: Gellman, Samuel H.
 Department of Chemistry, University of Wisconsin,
 Madison, WI, 53706, USA
 SOURCE: Organic Letters (2002), 4(19), 3317-3319
 CODEN: ORLE77; ISSN: 1523-7060
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:325636
 GI



AB (2R,3R)-Aminoproline, a pyrrolidine-based .beta.-amino acid, was
 synthesized and incorporated into hexa-.beta.-peptide I. This residue
 confers water soly. when the ring nitrogen is protonated and allows for
 12-helix formation in aq. soln. CD spectra display the 12-helical
 signature, which was confirmed by 2D NMR anal.
 IT 267230-44-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of aminoproline-contg. .beta.-peptides and their helical
 secondary structure anal. by CD and NMR)
 RN 267230-44-4 CAPLUS
 CN 1,3-Pyrrolidinedicarboxylic acid, 4-[[[(9H-fluoren-9-
 ylmethoxy)carbonyl]amino]-, 1-[(1,1-dimethylethyl) ester, (3R,4S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L7 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR
 THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

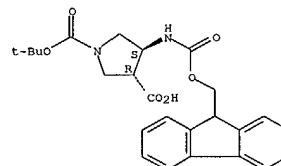
L7 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2002:241368 CAPLUS
 DOCUMENT NUMBER: 136:263480
 TITLE: Preparation of .beta.-amino acids and
 .beta.-polypeptides
 INVENTOR(S): Gellman, Samuel H.; Appella, Daniel H.; Lee,
 Hee-Seung; Leplae, Paul; Porter, Emilie; Wang,
 Xifang;
 PATENT ASSIGNEE(S): Woll, Matthew
 USA
 SOURCE: U.S. Pat. Appl. Publ., 48 pp., Cont.-in-part of U.S.
 Ser. No. 464,212.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002037997	A1	20020328	US 2001-833496	20010411
US 6060585	A	20000509	US 1998-34509	19980304
PRIORITY APPLN. INFO.:			US 1997-39905P	P 19970304
			US 1998-34509	A3 19980304
			US 1999-464212	A2 19991215

OTHER SOURCE(S): MARPAT 136:263480
 AB Disclosed are .beta.-amino acid monomers R1NHCHXCHYCO2R2 [X and Y
 together
 with the carbon atoms to which they are bonded, define (un)substituted
 cycloalkyl, cycloalkenyl or a heterocyclic ring having one or more
 nitrogen atoms; R1 = H or an amino-protecting group; R2 = H or a
 carboxy-protecting group] and .beta.-polypeptides made from such
 monomers.
 The 1H NMR and CD spectra of polypeptides, e.g., the dimer and hexamer of
 trans-2-aminocyclohexanecarboxylic acid, are shown. Methods of
 generating
 combinatorial libraries of polypeptides contg. the .beta.-peptide
 residues
 are given.
 IT 267230-44-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of .beta.-amino acids and .beta.-polypeptides)
 RN 267230-44-4 CAPLUS
 CN 1,3-Pyrrolidinedicarboxylic acid, 4-[[[(9H-fluoren-9-
 ylmethoxy)carbonyl]amino]-, 1-[(1,1-dimethylethyl) ester, (3R,4S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L7 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



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1017327718/08/2003

L7 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2002185719 CAPLUS
 DOCUMENT NUMBER: 136:248076
 TITLE: Oligomers and polymers of di-substituted cyclic imino carboxylic acids
 INVENTOR(S): Gellman, Samuel H.; Huck, Bayard R.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 33 pp., Cont.-in-part of U.S. Ser. No. 592,756.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002032334	A1	20020314	US 2001-883579	20010618
WO 2002102983	A2	20021227	WO 2002-US19050	20020617
WO 2002102983	A3	20030515		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:
 US 1999-138972P P 19990614
 US 2000-592756 A2 20000613
 US 2001-883579 A 20010618

AB Disclosed are cyclic imino oligomers and polymers comprising pyrrolidine or piperidine groups. Also disclosed are combinatorial libraries and arrays of the cyclic imino compds. Oligomers of benzyl pyrrolidine-3-carboxylate were prepd. from a N-BOC-protected precursor.

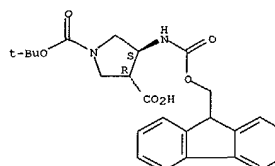
IT 267230-44-4P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation);

RACT (Reactant or reagent)
 (oligomers and polymers of di-substituted cyclic imino carboxylic acids)

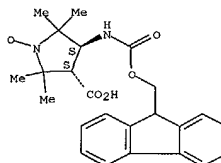
RN 267230-44-4 CAPLUS
 CN 1,3-Pyrrolidinedicarboxylic acid, 4-[[[9H-fluoren-9-ylmethoxy]carbonyl]amino]-, 1-(1,1-dimethylethyl) ester, (3R,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L7 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



L7 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L7 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 20011594508 CAPLUS
 DOCUMENT NUMBER: 135:318698
 TITLE: Fmoc-POAC: [(9-fluorenylmethoxycarbonyl)-2,2,5,5-tetramethylpyrrolidine-N-oxyl-3-amino-4-carboxylic acid]: a novel protected spin labeled .beta.-amino acid for peptide and protein chemistry
 AUTHOR(S): Tomimaga, Mineko; Barbosa, Simone Reis; Poletti, Erick
 CORPORATE SOURCE: Fernando; Zukerman-Schpector, Julio; Marchetto, Reinaldo; Schreier, Shirley; Paiva, Antonio Cechelli Mattos Mattos; Nakaie, Clovis Ryuichi
 SOURCE: Department of Biophysics, Universidade Federal de Sao Paulo, Sao Paulo, 04044-020, Brazil
 CODEN: CFBTAL; ISSN: 0009-2363
 PUBLISHER: Pharmaceutical Society of Japan
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The stable free radical 2,2,6,6-tetramethylpiperidine-N-oxyl-4-amino-4-carboxylic acid (TOAC) is the only spin labeled amino acid that has been used to date to successfully label peptide sequences for structural studies. However, severe difficulty in coupling it with an amino acid has been the most serious shortcoming of this paramagnetic marker. The present report introduces the alternative .beta.-amino acid 2,2,5,5-tetramethylpyrrolidine-N-oxyl-3-amino-4-carboxylic acid (FOAC), potentially useful in peptide and protein chem. X-ray diffraction measurements of FOAC in cryst. and bulk samples revealed that it consists only of the trans conformer. The amine function of FOAC was protected with 9-fluorenylmethoxycarbonyl (Fmoc), such that Fmoc-FOAC can be used in peptide synthesis. For example, vasoactive octapeptide angiotensin II (AII; DRVYIHPF) was synthesized by replacing Pro7 with FOAC. The reaction of Fmoc-FOAC with the peptidyl resin occurred smoothly, and the coupling of the subsequent amino acid showed a much faster reaction than when compared with TOAC. FOAC7-AII was obtained in a good yield, demonstrating that, in addn. to TOAC, FOAC is a convenient amino acid for the synthesis of spin labeled peptide analogs.

IT 367493-88-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of Fmoc-FOAC as a protected, spin labeled .beta.-amino acid for incorporation into angiotensin II)

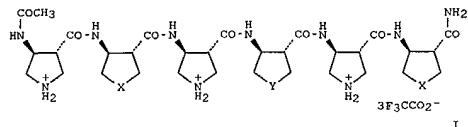
RN 367493-88-7 CAPLUS
 CN 1-pyrrolidinyl-3-carboxy-4-[[[9H-fluoren-9-ylmethoxy]carbonyl]amino]-2,2,5,5-tetramethyl-, (3R,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

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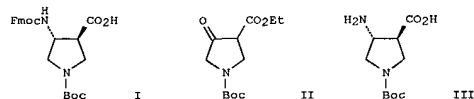
1017327718/08/2003

L7 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2001:500117 CAPLUS
 DOCUMENT NUMBER: 135:242486
 TITLE: Diversity in Short .beta.-Peptide 12-Helices:
 High-Resolution Structural Analysis in Aqueous
 Solution of a Hexamer Containing Sulfonated
 Pyrrolidine Residues
 AUTHOR(S): Lee, Hee-Seung; Syud, Faisal A.; Wang, Xifang;
 Gellman, Samuel H.
 CORPORATE SOURCE: Department of Chemistry, University of Wisconsin,
 Madison, WI, 53706, USA
 SOURCE: Journal of the American Chemical Society (2001),
 123(31), 7721-7722
 CODEN: JACSAT; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GT



AB Hexameric .beta.-peptides I (X = NSO2CHMe2, Y = NSO2C6H4OMe-4; X = Y = NSO2CHMe2; X = Y = NSO2C6H4OMe-4) contg. N-sulfonylated trans-3-aminopyrrolidine-4-carboxylic acid (S-APC) were prepd. and their secondary structures in aq. soln. were detd. from CD and 2D NMR spectra. The S-APC residue represent a general strategy for introducing specific side chains at defined positions along the surface of 12-helical .beta.-peptides.
 IT 359894-59-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and secondary structure anal. of helical .beta.-peptides contg. sulfonylaminopyrrolidinecarboxylate)
 RN 359894-99-8 CAPLUS
 CN 3-Pyrrolidinecarboxylic acid, 4-[[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-1-[(4-methoxyphenyl)sulfonyl]-, (3R,4S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

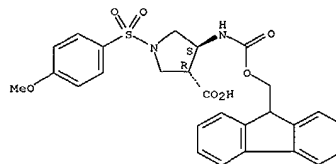
L7 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2001:270984 CAPLUS
 DOCUMENT NUMBER: 135:76741
 TITLE: An Efficient Route to Either Enantiomer of Orthogonally Protected trans-3-Aminopyrrolidine-4-carboxylic Acid
 AUTHOR(S): Lee, Hee-Seung; LePlae, Paul R.; Porter, Emilie A.; Gellman, Samuel H.
 CORPORATE SOURCE: Department of Chemistry, University of Wisconsin, Madison, WI, 53706-1396, USA
 SOURCE: Journal of Organic Chemistry (2001), 66(10), 3597-3599
 CODEN: JOCEAH; ISSN: 0022-3263
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 135:76741
 GI



AB The enantiomers of a protected trans-4-amino-3-pyrrolidinecarboxylic acid I, used in the prepn. of helical .beta.-peptides, are prepd. stereoselectively in 2 stages from Et N-Boc-3-oxopyrrolidinecarboxylate II. The key step of the synthesis is the stereoselective reductive amination of II with nonracemic .alpha.-methylbenzylamines to give the trans-.beta.-amino acid stereoselectively and in nonracemic form. E.g.,
 I was stirred in abs. ethanol with 2 equiv. (R)-(+)-.alpha.-methylbenzylamine in the presence of glacial acetic acid for 3 h; 4 equiv. sodium cyanoborohydride was added and the mixt. stirred at 75.degree. for 14 h (with caution due to possible HCN evolution); concn. followed by treatment with 4N HCl in dioxane and stirring for 3 h at room temp. gave the nonracemic methylbenzylaminopyrrolidinecarboxylate III as its monohydrochloride in 38% yield. E.g., III was dissolved in methanol/THF/water and stirred at 0.degree. with excess lithium hydroxide for 3 h; neutralization with 1N aq. HCl and evapn. gave the free acid hydrochloride as a white solid; the white solid was then dissolved in acetone/H2O and reacted with Fmoc-Osu and sodium bicarbonate at 0.degree. for 1 h and at room temp. overnight; after workup, (-)-(3S,4R)-I was isolated in 72% yield.
 IT 267230-44-4P 346610-79-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (stereoselective and enantioselective prepn. of orthogonally protected aminopyrrolidinecarboxylate derivs. by reductive amination of an oxopyrrolidinecarboxylate with .alpha.-methylbenzylamines)
 RN 267230-44-4 CAPLUS
 CN 1,3-Pyrrolidinedicarboxylic acid, 4-[[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-, 1-(1,1-dimethylethyl) ester, (3R,4S)- (9CI) (CA INDEX NAME)

Kamal Saeed

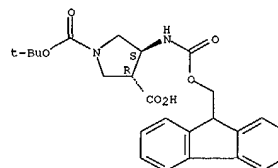
L7 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

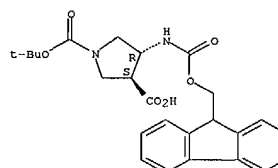
L7 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

Absolute stereochemistry. Rotation (-).



RN 346610-79-5 CAPLUS
 CN 1,3-Pyrrolidinedicarboxylic acid, 4-[[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-, 1-(1,1-dimethylethyl) ester, (3S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

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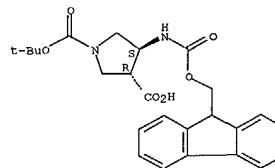
L7 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2000:900617 CAPLUS
 DOCUMENT NUMBER: 134:56967
 TITLE: Prepn. of unnatural peptide-like cyclic imino
 carboxylic acid oligomers and polymers
 Gellman, Samuel H.; Huck, Bayard R.; Richards,
 Michele
 INVENTOR(S):
 PATENT ASSIGNEE(S): R.
 SOURCE: Wisconsin Alumni Research Foundation, USA
 PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000076974	A2	20001221	WO 2000-US16188	20000613
WO 2000076974	A3	20010816		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, HR, HE, SH, TD, TG				
EP 1192136	A2	20020403	EP 2000-944655	20000613
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003502316	T2	20030121	JP 2001-503834	20000613

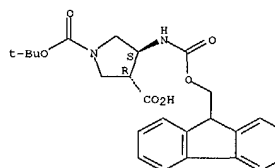
PRIORITY APPLN. INFO.: US 1999-138972P P 19990614
 WO 2000-US16188 W 20000613
 AB Comps. X-(A)n-Y, [n is an integer > 1; X or Y is H, OH, an amino- or carboxy-terminal capping group, or salts; A represents substituted 3-piperidinecarboxylic acid, 3-piperazinecarboxylic acid or 3-pyrrolidinecarboxylic acid attached at the N atom and carbonyl group] were prep. for generating combinatorial libraries. The preferred conformations of the prep. oligomers were detd. by CD and mol. modeling. Thus, Boc[(S)-PCB]3-OCH2Ph (Boc = tert-butoxycarbonyl, PCA = 3-pyrrolidinecarboxylic acid) was prep. by std. peptide coupling in soln. and its CD suggests distinct secondary structure.
 IT 267230-44-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and conformation of unnatural peptide-like cyclic imino carboxylic acid oligomers)
 RN 267230-44-4 CAPLUS
 CN 1,3-Pyrrolidinedicarboxylic acid, 4-[[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-, 1-(1,1-dimethylethyl) ester, (3R,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L7 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



L7 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2000:307139 CAPLUS
 DOCUMENT NUMBER: 132:322149
 TITLE: Preparation of .beta.-polypeptide foldamers of well-defined secondary structure
 Gellman, Samuel H.; Appella, Daniel H.; Christianson, Laurie A.; Klein, Daniel A.; Krauthauser, Susanne; Chung, Yong Jun; Wang, Xifang
 INVENTOR(S): Wisconsin Alumni Research Foundation, USA
 PATENT ASSIGNEE(S): U.S., 42 pp.
 SOURCE: CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6060585	A	20000509	US 1998-34509	19980304
US 2002037997	A1	20020328	US 2001-833496	20010411
PRIORITY APPLN. INFO.: US 1997-39905P P 19970304				
US 1998-34509 A3 19980304				
US 1999-464212 A2 19991215				

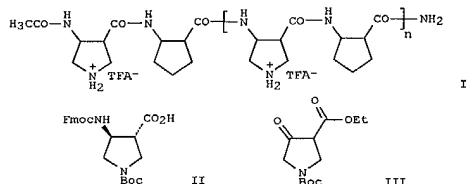
AB Polypeptides [(NHCHXCHYCO)n-Z-(NHCHXCHYCO)p]m [Z is a single bond, a prolyl-glycolic acid linkage, or a di-nipecotic acid residue; when Z is a single bond, X and Y together with the carbon atoms to which they are bonded, define (un)substituted cycloalkyl, cycloalkenyl or a heterocyclic ring having one or more nitrogen atoms; when Z is not a single bond, X and Y are as defined above or independently selected from hydroxy, alkyl, alkenyl, alkynyl, hydroxy- or aminoalkyl, alkoxy, alkoxyalkyl, amino, carboxamido, sulfonamido, cyano, mono- or bicyclic aryl or heteroaryl, etc.; m, n, and p are pos. integers] were prep. The .beta.-peptides adopt stable helical and sheet structures in both the solid state and in soln. The 1H NMR and CD spectra of polypeptides, e.g., the dimer and hexamer of trans-2-aminocyclohexanecarboxylic acid, are shown. Method of generating combinatorial libraries of peptides contg. .beta.-peptide residues and the libraries formed thereby are disclosed.
 IT 267230-44-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of .beta.-polypeptide foldamers of well-defined secondary structure)
 RN 267230-44-4 CAPLUS
 CN 1,3-Pyrrolidinedicarboxylic acid, 4-[[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-, 1-(1,1-dimethylethyl) ester, (3R,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

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1017327718/08/2003

L7 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:281231 CAPLUS
DOCUMENT NUMBER: 133:89780
TITLE: 12-Helix formation in aqueous solution with short
.beta.-peptides containing pyrrolidine-based residues
AUTHOR(S): Wang, Xifang; Espinosa, Juan F.; Gellman, Samuel H.
CORPORATE SOURCE: Department of Chemistry, University of Wisconsin,
Madison, WI, 53706, USA
SOURCE: Journal of the American Chemical Society (2000),
122(19), 4821-4822
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB The design, synthesis and conformational anal. of a set of .beta.-amino acid oligomers ("beta.-peptides") I (n = 1-3; TFA = trifluoroacetate) were presented. One of the .beta.-amino acids, protected 3-aminopyrrolidine-4-carboxylate II, was synthesized in an enantiopure form from .beta.-ketoester III. I was synthesized from the .beta.-amino acids II and (R,R)-2-aminocyclopentanecarboxylate using solid-phase methodol. with Rink amide resin, Fmoc/Boc protection and PyBOP as the coupling agent; after HPLC purifications, I was isolated as a trifluoroacetate salt. Using NMR and CD, detailed conformational anal.

of I (n=2) was provided.

IT 267230-44-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

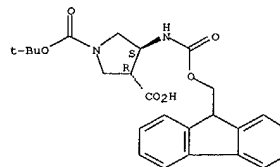
(prepn. of enantiopure aminopyrrolidinecarboxylate)

RN 267230-44-4 CAPLUS

CN 1,3-Pyrrolidinedicarboxylic acid, 4-[[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-, 1-(1,1-dimethylethyl) ester, (3R,4S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L7 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

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TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

50.31

352.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

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CA SUBSCRIBER PRICE

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